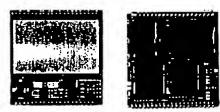


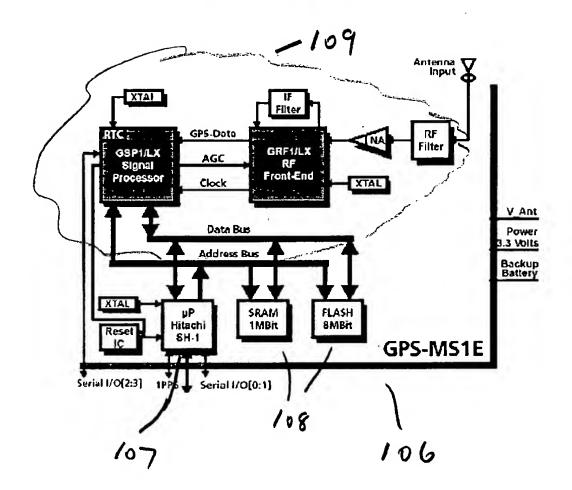
FIG.2

BLANK

Datasheet GPS-MS1E



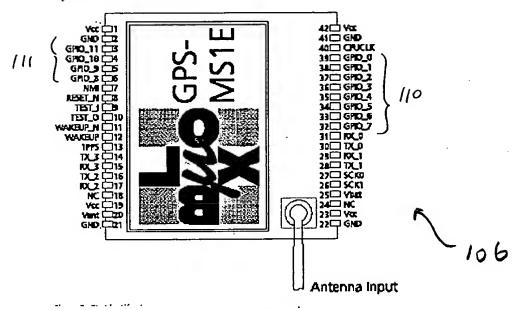
Sensor positions



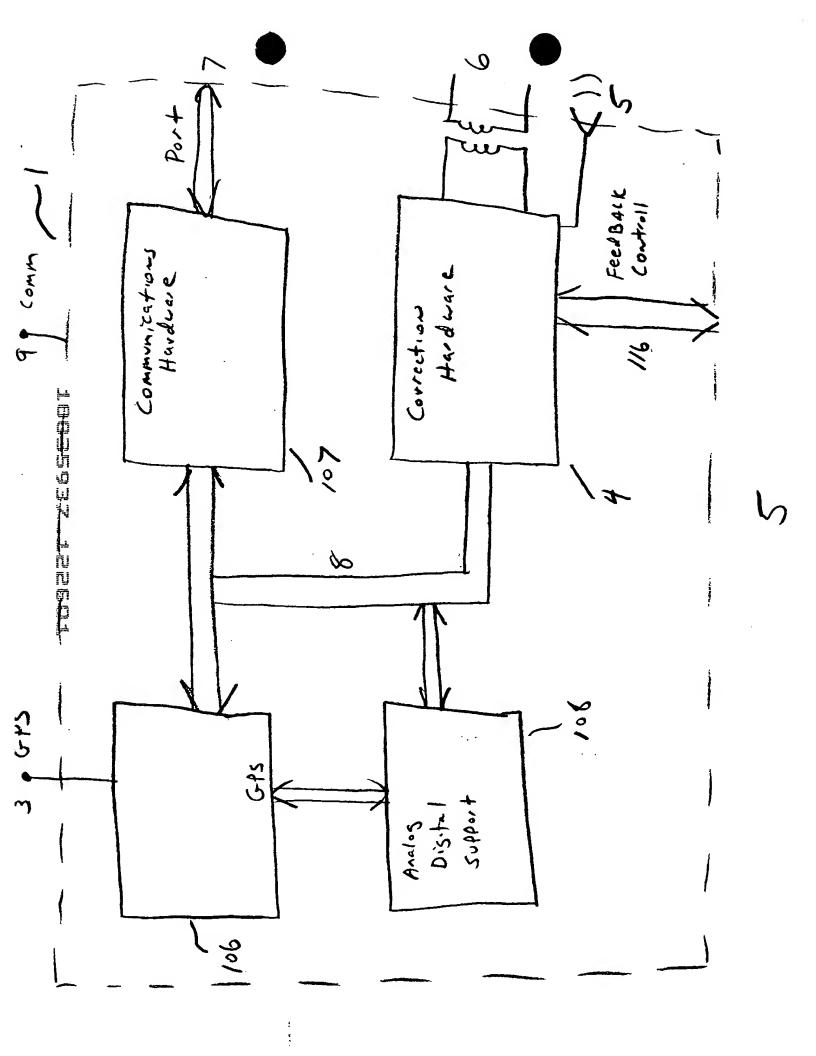
$\begin{array}{c} Figure~3\\ \mu-BLOX~programmer \end{array}$

6.2 Pin Description

Figure 2 shows the pin identification



 $\begin{array}{c} \textbf{Eigure 4} \\ \mu\text{-BLOX pin-out configuration for the GPS-MS1E} \end{array}$



Communications:

The GPS coordinates at command can be transmitted in many different possible ways. Three of

the possible ways included here but not limited to are:

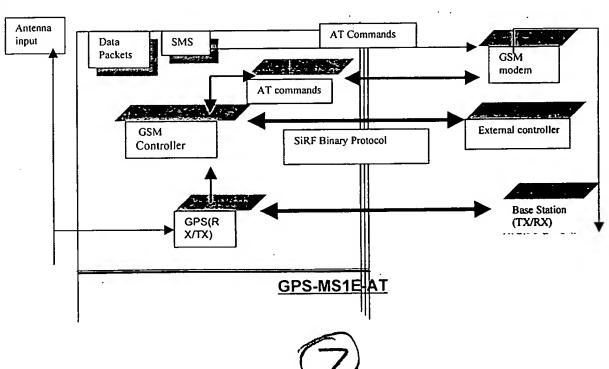
- GPS Receives with integrated GSM Control Software
- Employing the TDMA Technology
- Employing the CDMA Technology

A) GPS Receiver with integrated GSM Control Software

Overview

The setup requires a GPS receiver (GPS-MS1E-AT), a SSM modem supporting AT interface (GSM 07.05,07.07) and ap external controller. The controller reads positions from the GPS receiver and controls the modem. Incorporating the control of the GSM modem into a GPS receiver spares the extra processor, which simplifies the design and saves cost. Below shows the schematic of the communication system.

u-Blox offers an integrated control system for GSM modems with the AT command intefface for GPS receivers. This system is designed for autonomous operation. An External controller is not required, however, it can be used for enhanced functionality.





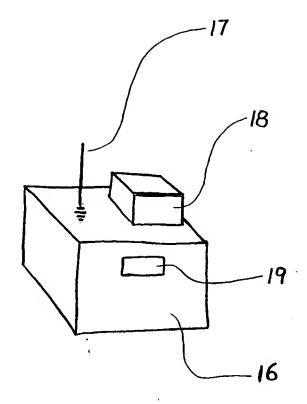


FIG. 6

Ţ

FIG.6A

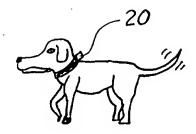


FIG.6B

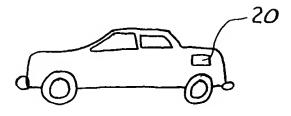


FIG.6C



FIG.6D

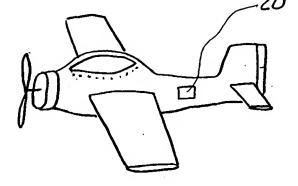
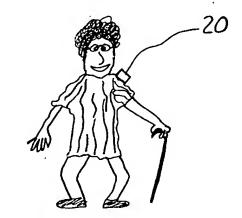
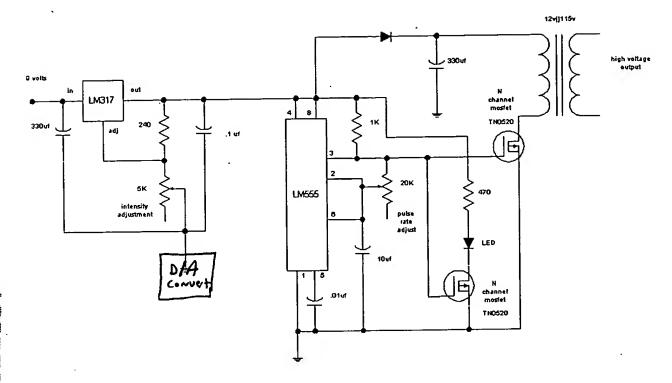
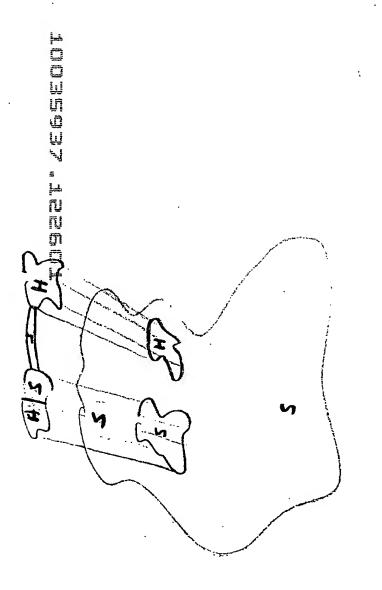


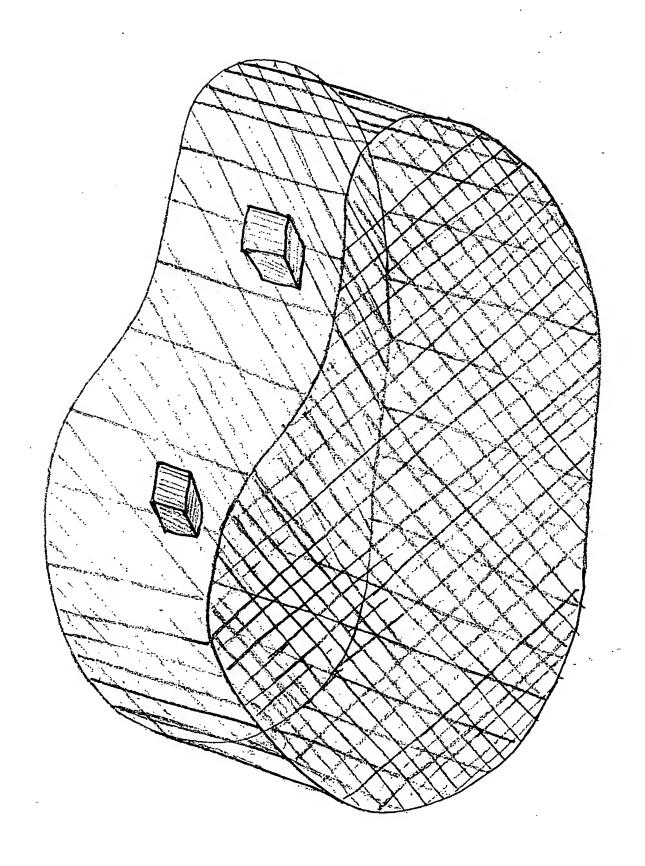
FIG.6E

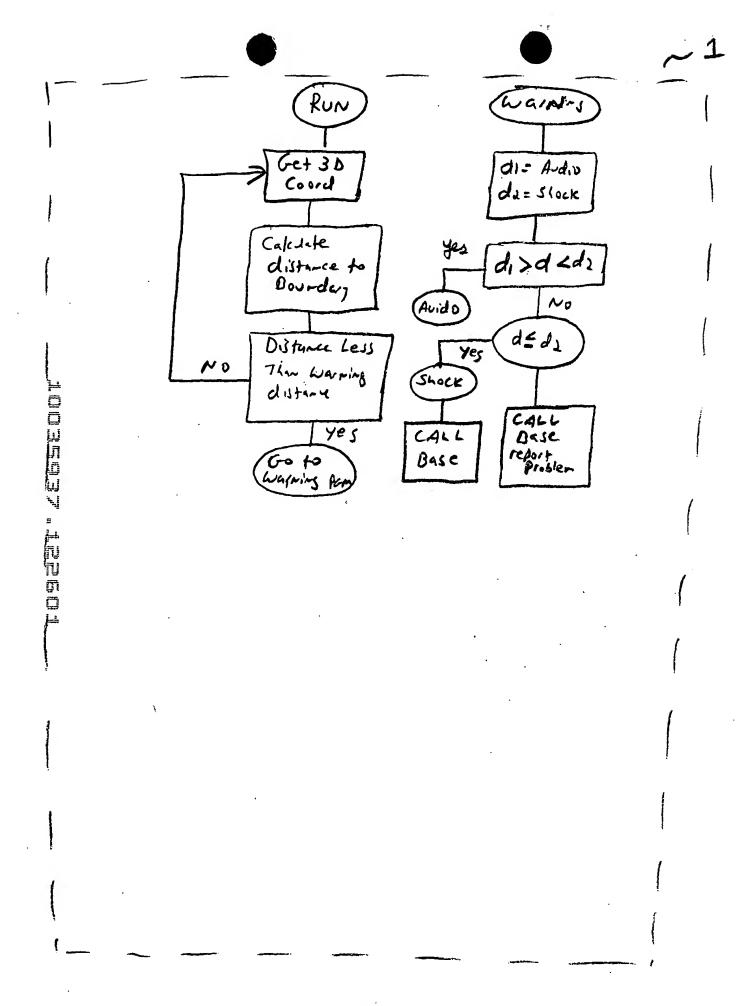












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